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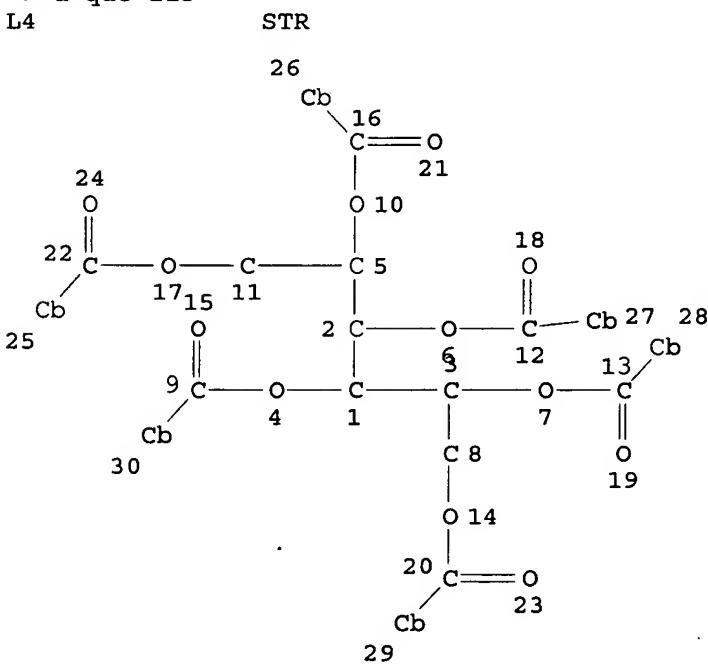
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FILE 'HCAPLUS' ENTERED AT 14:29:59 ON 23 DEC 2005
L1 1 S US20050164891/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 14:30:23 ON 23 DEC 2005
L2 9 S E1-E9
L3 1 S L2 AND HEXABEN?
L4 STR 860473-65-0
L5 7 S L4
L6 64 S L4 FUL
L7 3 S L6 AND L2
SAV L6 CHA667/A

FILE 'HCAPLUS' ENTERED AT 14:49:39 ON 23 DEC 2005
L8 48 S L6
L9 1 S L8 AND SAG?
L10 1 S L8 AND FOSSIL?/SC,SX
L11 2 S L8 AND (WELL? OR DRILL? OR EMULS? OR FUEL?)
L12 3 S L8 AND COMPOSITION?
L13 4 S L9-L12
L14 44 S L8 NOT L13

=> d que l13



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

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L6      64 SEA FILE=REGISTRY SSS FUL L4
L8      48 SEA FILE=HCAPLUS ABB=ON PLU=ON L6
L9      1 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND SAG?
L10     1 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND FOSSIL?/SC,SX
L11     2 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND (WELL? OR
          DRILL? OR EMULS? OR FUEL? )
L12     3 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND COMPOSITION?
L13     4 SEA FILE=HCAPLUS ABB=ON PLU=ON (L9 OR L10 OR L11 OR
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=> d l13 1-4 ibib abs hitstr hitind
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L13 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:672845 HCAPLUS
 DOCUMENT NUMBER: 143:156047
 TITLE: Methods of reducing sag in
 non-aqueous drilling fluids using
 cystol ester for wells
 INVENTOR(S): Falana, Olusegun M.; Patel, Bharat B.;
 Stewart, Wayne S.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 10 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
US 2005164891	A1	20050728	US 2004-764667	2004 0126
WO 2005073336	A1	20050811	WO 2005-US225	2005 0105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,
 ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
 KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
 MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL,
 PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
 TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,
 CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,
 LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-764667 A
 2004
 0126

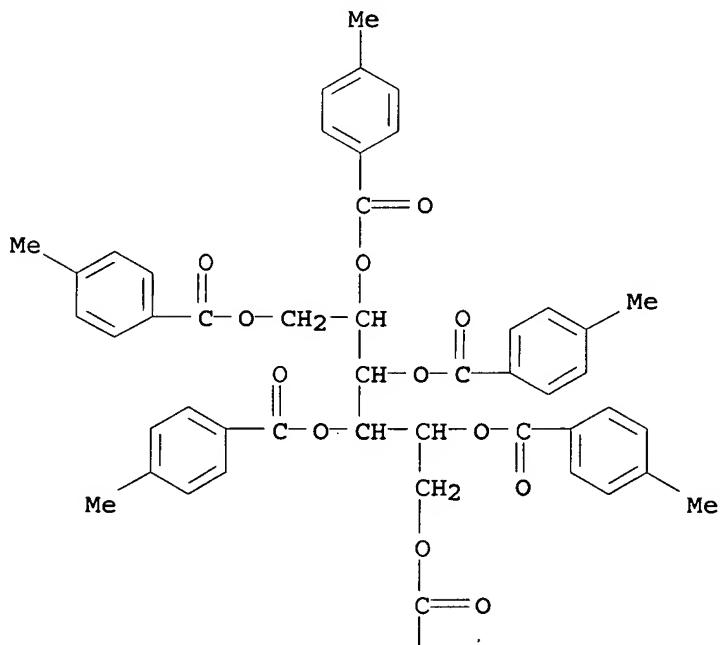
AB Methods of reducing sag include combining a cystol ester compound with a nonaq. fluid and particles to reduce sag in the resulting fluid composition without significantly increasing the viscosity of the fluid composition. The fluid composition comprises the nonaq. fluid, the particles, and the cystol ester compound. Suitable cystol ester compds. include cystol ester and derivs. of cystol ester having mono-, di-, or tri-substituted aromatic compds. as substituents. The nonaq. fluid may comprise an invert emulsion, diesel oil, mineral oil, an olefin, an organic ester, a synthetic fluid, or combinations thereof. Further, the fluid composition may be used as a well-bore servicing fluid such as a drilling fluid. The particles may comprise a weighting agent, e.g., barite, galena, hematite, dolomite, calcite, or combinations thereof. The fluid composition may also include organophilic clay.

IT 860456-57-1P 860456-58-2P 860473-65-0P
 (methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

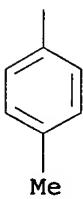
RN 860456-57-1 HCPLUS

CN Hexitol, hexakis(4-methylbenzoate) (9CI) (CA INDEX NAME)

PAGE 1-A



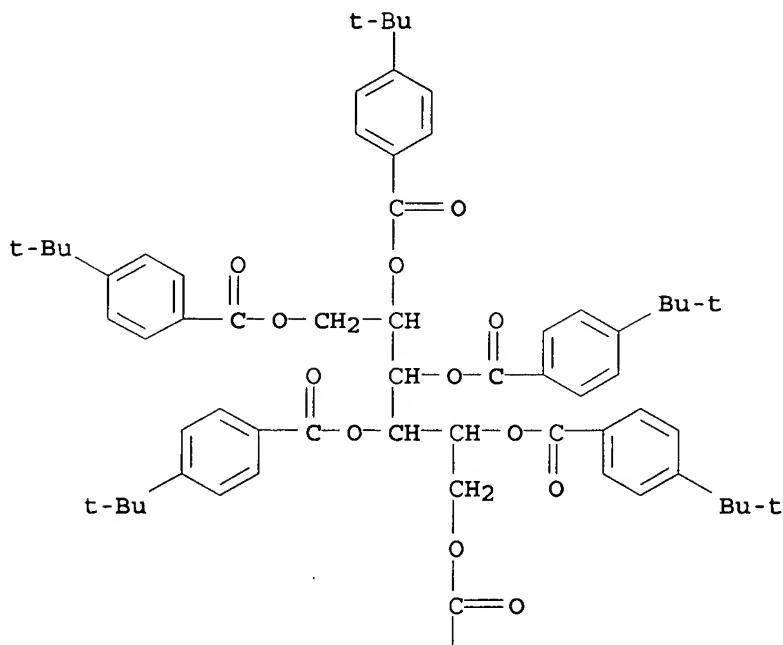
PAGE 2-A



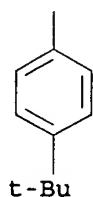
RN 860456-58-2 HCAPLUS

CN Hexitol, hexakis[4-(1,1-dimethylethyl)benzoate] (9CI) (CA INDEX NAME)

PAGE 1-A

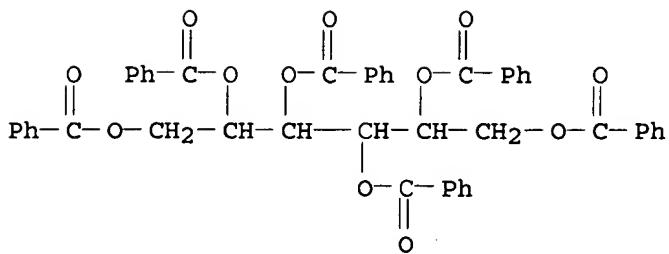


PAGE 2-A



RN 860473-65-0 HCAPLUS

CN Hexitol, hexabenzoate (9CI) (CA INDEX NAME)



IC ICM C09K007-06

INCL 507103000

CC 51-2 (Fossil Fuels, Derivatives, and Related Products)

ST sag nonaq drilling fluid well cystol ester particle clay

IT Emulsions

(diesel fuel; methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT Diesel fuel

(emulsions; methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT Drilling fluids

(inverted emulsions; methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT Drilling fluids

Natural gas wells

Oil wells

Particles

Viscosity

Wells

(methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT Alkenes, uses

Esters, uses

Hydrocarbon oils

(methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT Clays, uses

(organophilic; methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT Emulsions

(water-in-oil; methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT 45007-61-2DP, Hexitol, ester compound 860456-57-1P

860456-58-2P 860473-65-0P

(methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

IT 1317-60-8, Hematite, uses 12179-39-4, Galena 13397-26-7, Calcite, uses 13462-86-7, Barite 16389-88-1, Dolomite, uses (methods of reducing sag in non-aqueous drilling fluids using cystol ester for wells)

L13 ANSWER 2 OF 4 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:321059 HCPLUS

DOCUMENT NUMBER: 131:129731

TITLE: The importance of micro segregation for

AUTHOR(S) : mesophase formation: thermotropic columnar mesophases of tetrahedral and other low-aspect-ratio organic materials
 Pegenau, Annegret; Hegmann, Torsten;
 Tschierske, Carsten; Diele, Siegmar
 CORPORATE SOURCE: Institut fur Organische Chemie der Martin-Luther-Universitat Halle-Wittenberg,
 Halle, D-06120, Germany
 SOURCE: Chemistry--A European Journal (1999), 5(5),
 1643-1660
 CODEN: CEUJED; ISSN: 0947-6539
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English

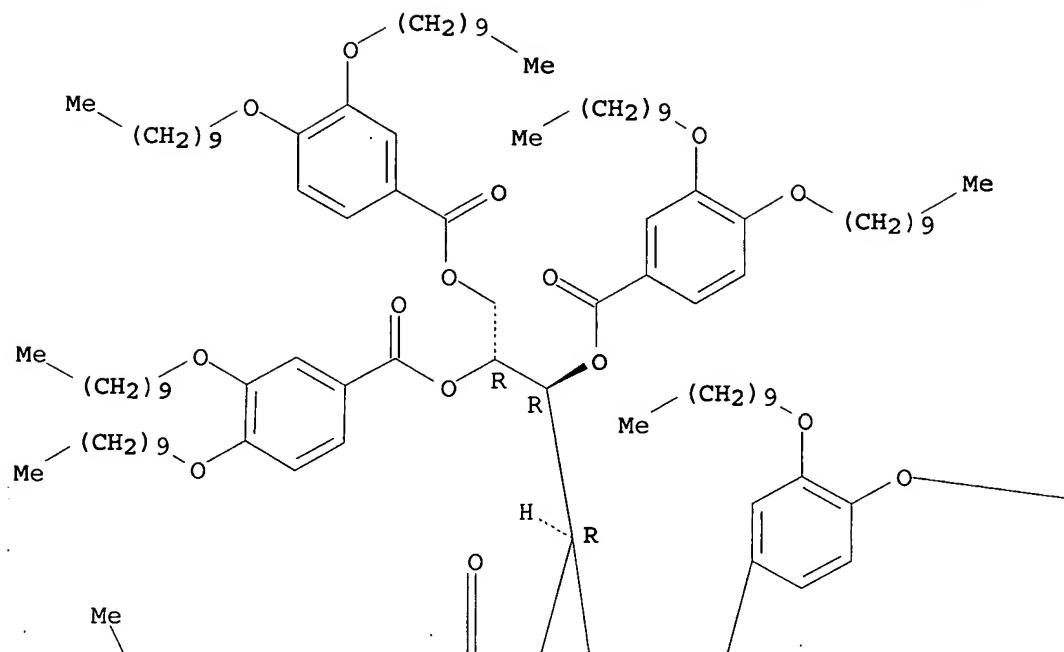
AB Several low-aspect-ratio organic mols. [tetrahedral pentaerythritol derivs., peracylated polyhydroxy compds. and aminoalcs., a tetraphenylmethane derivative, a tetraphenylstannane, and a tetrahedral zinc bis(1,3-diketonate) all carrying long aliphatic chains] have been synthesized. These compds. were investigated by polarizing optical microscopy and differential scanning calorimetry, and some of them by X-ray diffraction. Most compds. show columnar liquid-crystalline mesophases. Their mesogenic properties are neither caused by a specific anisometric shape of these mols. nor by a strong amphiphilicity as known from conventional liquid crystals. Instead their mesogenicity is mainly driven by micro segregation of the incompatible mol. parts (polar central regions and lipophilic alkyl chains) into well-organized different microdomains. It is shown that, in analogy to block copolymers, the mesophase stability rises on enlarging the number of repeat units connected with each other and on increasing the degree of incompatibility between the incompatible segments. During the process of self-organization the average conformation of the mols. is changed in such a way that it allows a most efficient packing of the mols. Consequently, rigid mols. with a fixed tetrahedral geometry are not mesogenic. The mols. described herein can be regarded as the most simple star-shaped low-aspect-ratio block mols. that form liquid-crystalline phases. They bridge the gap between classical amphiphilic mesogens, several nonconventional dendritic and oligomeric liquid crystals, and mesomorphic block copolymers.

IT 205390-78-9P
 (preparation of starlike low-aspect-ratio organic materials and their liquid crystalline phase properties)

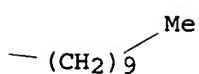
RN 205390-78-9 HCPLUS
 CN D-Mannitol, hexakis[3,4-bis(decyloxy)benzoate] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

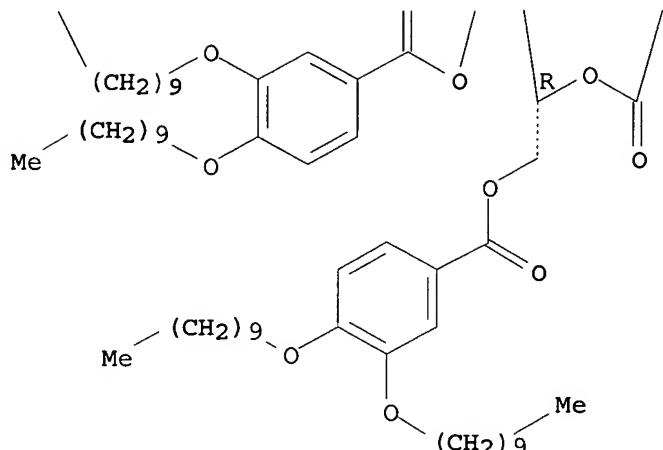
PAGE 1-A



PAGE 1-B



PAGE 2-A



CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 22, 33, 75

IT 185433-76-5P 185433-77-6P 185433-78-7P 185433-79-8P
 185433-80-1P 185433-81-2P 185433-82-3P 185433-83-4P
 185433-84-5P 185433-85-6P 185433-86-7P 205390-70-1P
 205390-72-3P 205390-73-4P 205390-74-5P 205390-75-6P
 205390-76-7P 205390-77-8P 205390-78-9P 233661-08-0P
 233661-09-1P 233661-10-4P 233661-11-5P 233661-12-6P
 233661-13-7P 233661-14-8P 233661-15-9P 233661-16-0P
 233661-17-1P 233661-18-2P 233661-19-3P 233661-20-6P
 233661-21-7P 233661-22-8P 233661-23-9P 233661-24-0P
 233770-55-3P

(preparation of starlike low-aspect-ratio organic materials and their liquid crystalline phase properties)

REFERENCE COUNT: 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:214947 HCAPLUS

DOCUMENT NUMBER: 106:214947

TITLE: Benzoate-stabilized rigid poly(vinyl chloride) compositions

INVENTOR(S): Reid, William J.; Zappia, Jean M.; Capocci, Gerald A.; Spivack, John D.

PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA

SOURCE: U.S., 4 pp. Cont.-in-part of U.S. 4,555,541.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

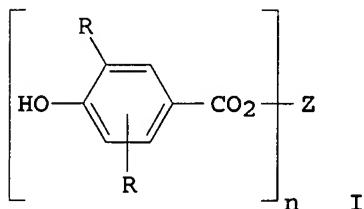
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4619957	A	19861028	US 1985-764282	1985 0809

US 4555541	A	19851126	US 1984-579232	1984 0213
CA 1257440	A1	19890711	CA 1985-473998	1985 0211
JP 60210654	A2	19851023	JP 1985-26120	1985 0213
JP 06004742	B4	19940119	US 1984-579232	A2 1984 0213
PRIORITY APPLN. INFO.:				

GI



AB Rigid PVC containing the esters I (R = alkyl; Z = alkanetrihexayl; n = 3-6) have good UV resistance and impact strength at low concns. (2-8%) of TiO₂. Adding 57.3 g 90% 3,5-di-tert-butyl-4-hydroxybenzoyl chloride over 20 min to D,L-mannitol in 400 mL pyridine stirred at 20° and stirring 20 h at 65-70° gave a hexaester (II). Compounded, rigid PVC containing 1 phr II and 5 phr TiO₂ had yellowness index 5.9 and 4.3 after 0 and 600 h, resp., at Weatherometer exposure (55-60°, 70-75% relative humidity); vs. 7.4 and 8.1, resp., without II.

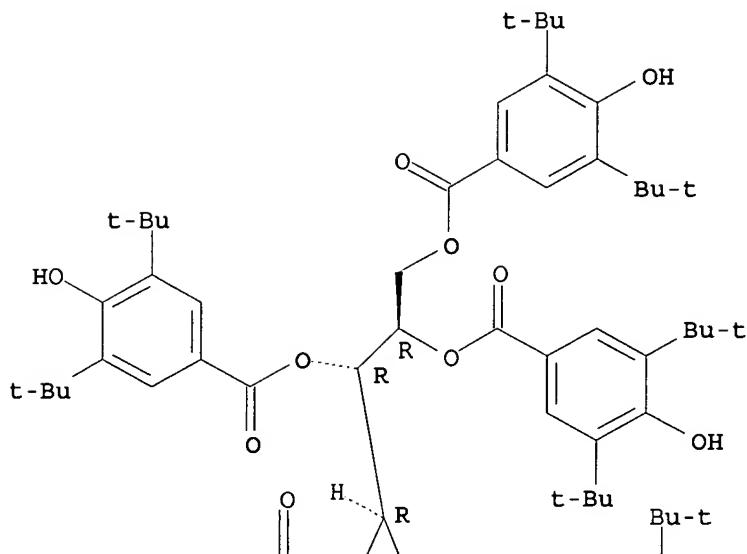
IT 108352-81-4 108375-88-8
(light stabilizers, for rigid PVC)

RN 108352-81-4 HCPLUS

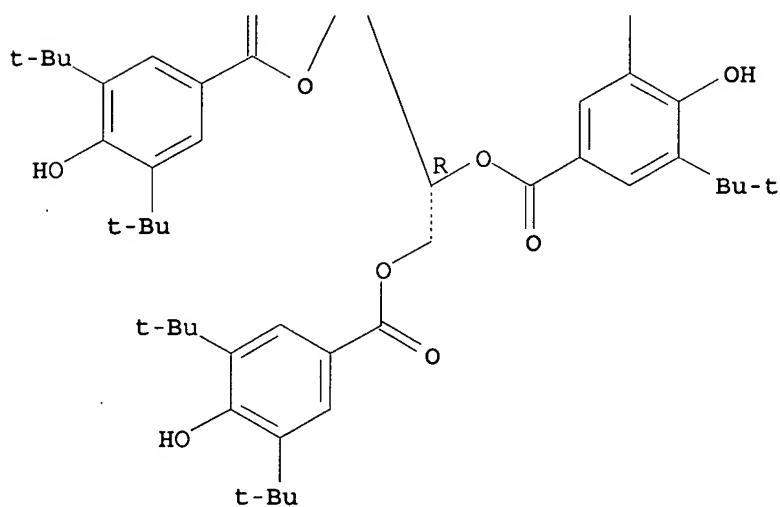
CN Mannitol, hexakis[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoate] (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



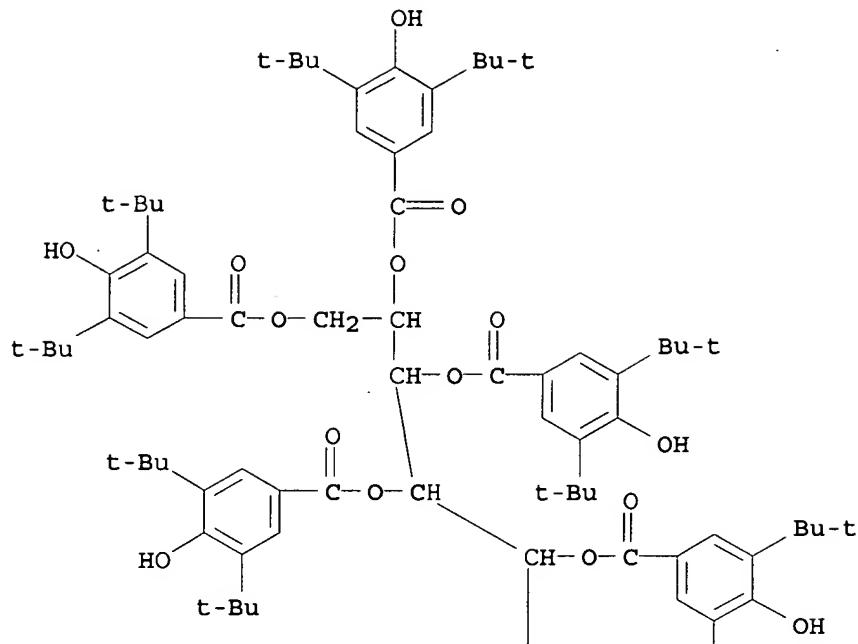
PAGE 2-A



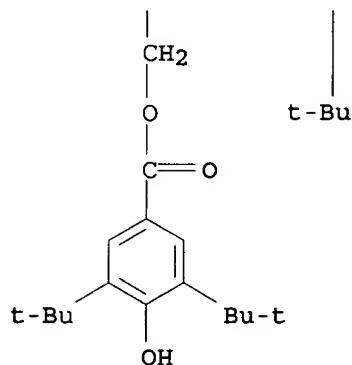
RN 108375-88-8 HCPLUS

CN D-Glucitol, hexakis[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoate]
(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM C08K005-58

INCL 524091000

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 25

IT 4376-79-8 56497-27-9 106712-55-4 108352-81-4

108375-88-8

(light stabilizers, for rigid PVC)

L13 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:165395 HCAPLUS

DOCUMENT NUMBER: 104:165395

TITLE: Further constituents of Adenia cissampeloides

AUTHOR(S): Morah, Francis N. I.

CORPORATE SOURCE: Dep. Chem., Coll. Educ., Nsugbe, Onitsha,
Nigeria
SOURCE: Journal of the Indian Chemical Society (1985),
62(9), 712-13
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Stems of *A. cissampeloides* were defatted with light petroleum and extracted with a MeOH-acetone mixture (1:1), followed by partitioning between ether and H₂O. The polar fraction was chromatographed over deactivated silica to yield sucrose and NaCl. An EtOH extract of the stems yielded D-mannitol by crystallization Compds. were identified by physicochem. characterization.

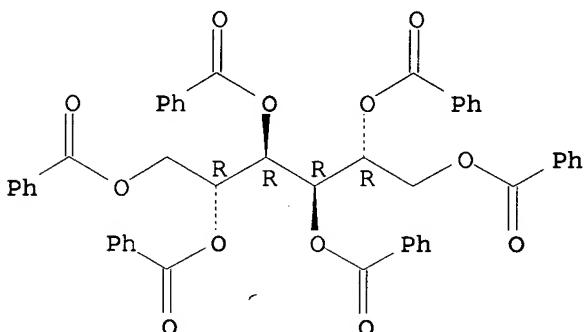
IT 7462-41-1P

(preparation of)

RN 7462-41-1 HCPLUS

CN D-Mannitol, hexabenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 11-1 (Plant Biochemistry)

ST Adenia compn sucrose sodium chloride mannitol

IT Adenia cissampeloides
(composition of)

IT 3969-59-3P 7462-41-1P
(preparation of)

=> d 114 1-44 ti

L14 44 ANSWERS HCPLUS COPYRIGHT 2005 ACS on STN

TI Polymers of pharmacological interest. Nonaqueous titrimetry

L14 44 ANSWERS HCPLUS COPYRIGHT 2005 ACS on STN

TI Preparation of inclusion compounds or molecular complexes of pesticides with sugar esters

L14 44 ANSWERS HCPLUS COPYRIGHT 2005 ACS on STN

TI Enteric coating. VI. Saccharide and polyhydric alcohol hydrogen phthalates

L14 44 ANSWERS HCPLUS COPYRIGHT 2005 ACS on STN

TI Crystalline D-glycero-L-gluco-octulose, crystalline methyl D-glycero- α -L-gluco-octulopyranoside, and some related compounds

- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Esters of polyols and polycarboxylic acids and their preparation and use with metal salts for tanning
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Enteric coatings from monosaccharides, disaccharides, and polyhydric alcohol
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Polyol-poly(diallyltrimellitates)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Amine-induced deacylation of carbohydrate derivatives under anhydrous conditions
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Aspects of stereochemistry. VII. Structure of some cyclic acetals of D-glycero-D-gluco-heptitol (β -sedoheptitol)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Some properties of 4-nitrobenzoates of saccharides and glycosides; application to high-pressure liquid chromatography
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Liquid crystalline tetrahedra and low-aspect ratio organic materials
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Some new esters of sorbitol
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Chemical examination of the roots of Gardenia turgida Roxb
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI N-Methylimidazole as a catalyst in hydroxy compounds esterification
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Constituents of local plants. V. The constituents of various parts of the pomegranate plant
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Mass spectrometry of some ultraviolet absorbing derivatives of sugars and related alditols: identification in biologic fluids after separation by high performance liquid chromatography
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation of gallic acid esters and their use as ADP-ribosyltransferase inhibitors for treatment of intestinal infection by endotoxin-producing bacteria
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Polyhydric alcohol esters of acetylsalicylic acid
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Proton NMR studies of D-mannitol derivatives
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Solutions for storage of ink-jet printing heads

- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI The Wohl reaction applied to some benzoylated aldononitriles
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Proton NMR spectra and conformation of some benzoyl alditoles
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Efficient Synthesis of Enantiopure Conduritols by Ring-Closing Metathesis
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Aromatic carboxylate derivatives
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Carbon-13 NMR spectra of some acyclic perbenzoylated carbohydrate derivatives
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Identification in traditional herbal medications and confirmation by synthesis of factors that inhibit cholera toxin-induced fluid accumulation
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis of O-acylaldonamides
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Conformation of some benzoylated aldononitriles and 5-(polybenzoyloxyalkyl)tetrazoles as determined by their proton NMR spectra
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Use of DSC To Detect the Heterogeneity of Hydrothermal Stability in the Polyphenol-Treated Collagen Matrix
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI L-Gulonic acid derivatives. II. Benzoyl migration in derivatives of D-glucitol
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Isopropylideneation of maltitol and a new synthetic approach for disaccharides having an α -glycosidic linkage
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Structure-activity relationships in the hydrophobic interactions of polyphenols with cellulose and collagen
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis and properties of aliphatic polyesters of 2-hydroxy- and 2-acetoxybenzoic acids
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Structure of galactitol hexa(p-chlorobenzoate)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis and spectroscopic characterization of the polygalloyl esters of polyols-models for gallotannins
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Synthesis and properties of 2-hydroxy- and 2-acetoxy-5-iodobenzoic

acid polyesters of short-chain aliphatic polyalcohols

- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Application of the exciton chirality method to acyclic systems:
circular dichroism of acyclic sugar poly-p-chlorobenzoates
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Exciton Cotton Effects of Benzoates in the 1B Transition Region.
Demonstration and Applications
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Determination of bond types of polysaccharides
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Mass spectra of some per-O-benzoylalditols and -aldobiitols
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Chemical constitution and the tanning effect. I. Simple esters and
polyesters of gallic acid
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Nonaqueous titrimetry study of polymers of pharmacological
interest
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Unusual solid-state conformation of D-glucitol
hexa(p-chlorobenzoate)
- L14 44 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
TI Trifluoroacetic acid. I. Trifluoroacetic anhydride as a promotor
of ester formation between hydroxy compounds and carboxylic acids